

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062316\  
 Data File : BM005949.D  
 Acq On : 24 Jun 2016 02:59  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02053

Manual Integrations  
 APPROVED

umangi  
 6/24/2016 7:29:47 PM

Quant Time: Jun 24 04:34:37 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 24 00:58:22 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 240418   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 993567   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 523797   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 1191977  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.24 | 240  | 1354977  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.46 | 264  | 1427031  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.18  | 96  | 49394   | 8.18  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.83  | 99  | 416028  | 20.09 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 259088  | 20.45 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.19  | 132 | 322223  | 19.77 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 317252  | 19.56 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 149448  | 20.45 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.53  | 143 | 151739  | 19.83 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.06 | 165 | 302139  | 20.62 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.58 | 131 | 370691  | 23.12 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.72 | 166 | 818099  | 19.66 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 1081407 | 20.81 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.50 | 143 | 163325  | 20.08 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.30 | 176 | 730868  | 20.33 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 117823  | 19.84 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.16 | 188 | 1102217 | 20.30 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.45 | 212 | 1250794 | 19.89 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.32 | 264 | 1323169 | 20.58 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |         |             | Ovalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88  | 51795   | 7.93 ng/ul  | 95     |
| 4) Benzaldehyde                | 6.81  | 77  | 96313m  | 24.10 ng/ul |        |
| 6) Phenol                      | 6.86  | 94  | 458081  | 20.34 ng/ul | 97     |
| 8) Bis(2-Chloroethyl)ether     | 7.09  | 93  | 339476  | 20.51 ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.23  | 128 | 340031  | 19.96 ng/ul | 99     |
| 11) 2-Methylphenol             | 8.10  | 108 | 325689  | 19.92 ng/ul | 96     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.20  | 45  | 487445  | 20.12 ng/ul | 100    |
| 14) Acetophenone               | 8.48  | 105 | 506952  | 20.32 ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.47  | 70  | 265320  | 19.27 ng/ul | 98     |
| 16) 4-Methylphenol             | 8.43  | 108 | 349354  | 19.74 ng/ul | 98     |
| 17) Hexachloroethane           | 8.73  | 117 | 135308  | 19.63 ng/ul | 94     |
| 20) Nitrobenzene               | 8.86  | 77  | 393107  | 20.47 ng/ul | 99     |
| 21) Isophorone                 | 9.38  | 82  | 689463  | 19.54 ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.56  | 139 | 173096  | 20.16 ng/ul | 98     |
| 24) 2,4-Dimethylphenol         | 9.63  | 107 | 377296  | 20.16 ng/ul | 99     |
| 25) Bis(2-Chloroethoxy)methane | 9.86  | 93  | 437397  | 19.91 ng/ul | 97     |
| 27) 2,4-Dichlorophenol         | 10.09 | 162 | 305658  | 20.59 ng/ul | 99     |
| 28) Naphthalene                | 10.49 | 128 | 1001182 | 20.20 ng/ul | 100    |
| 30) 4-Chloroaniline            | 10.60 | 127 | 395353  | 22.90 ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.78 | 225 | 194160  | 21.27 ng/ul | 96     |
| 32) Caprolactam                | 11.35 | 113 | 100113  | 18.28 ng/ul | 96     |
| 33) 4-Chloro-3-methylphenol    | 11.73 | 107 | 332662  | 19.22 ng/ul | 97     |
| 34) 2-Methylnaphthalene        | 12.11 | 142 | 723996  | 19.94 ng/ul | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.49 | 216  | 365808   | 21.99 | ng/ul | 99       |
| 37) Hexachlorocyclopentadiene  | 12.46 | 237  | 213703   | 22.23 | ng/ul | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.73 | 196  | 236754   | 20.97 | ng/ul | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.80 | 196  | 243853   | 20.68 | ng/ul | 98       |
| 40) 1,1'-Biphenyl              | 13.14 | 154  | 904950   | 21.03 | ng/ul | 99       |
| 41) 2-Chloronaphthalene        | 13.17 | 162  | 701259   | 21.13 | ng/ul | 99       |
| 42) 2-Nitroaniline             | 13.38 | 65   | 223618   | 20.11 | ng/ul | 99       |
| 44) Dimethylphthalate          | 13.77 | 163  | 823868   | 19.61 | ng/ul | 100      |
| 45) 2,6-Dinitrotoluene         | 13.89 | 165  | 165407   | 20.12 | ng/ul | 98       |
| 47) Acenaphthylene             | 14.03 | 152  | 1143942  | 20.72 | ng/ul | 100      |
| 48) 3-Nitroaniline             | 14.22 | 138  | 188362   | 22.86 | ng/ul | 97       |
| 49) Acenaphthene               | 14.37 | 153  | 717247   | 20.54 | ng/ul | 98       |
| 50) 2,4-Dinitrophenol          | 14.42 | 184  | 81757    | 18.17 | ng/ul | 95       |
| 52) 4-Nitrophenol              | 14.52 | 109  | 155670   | 20.00 | ng/ul | 97       |
| 53) Dibenzofuran               | 14.71 | 168  | 1031294  | 20.45 | ng/ul | 100      |
| 54) 2,4-Dinitrotoluene         | 14.67 | 165  | 243605   | 20.13 | ng/ul | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.93 | 232  | 214927   | 20.51 | ng/ul | 98       |
| 56) Diethylphthalate           | 15.15 | 149  | 833857   | 19.20 | ng/ul | 99       |
| 58) Fluorene                   | 15.36 | 166  | 810050   | 20.62 | ng/ul | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.36 | 204  | 391202   | 20.75 | ng/ul | 97       |
| 60) 4-Nitroaniline             | 15.38 | 138  | 209627   | 20.50 | ng/ul | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.44 | 198  | 131991   | 20.33 | ng/ul | 96       |
| 64) N-Nitrosodiphenylamine     | 15.57 | 169  | 705182   | 20.45 | ng/ul | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.26 | 248  | 257098   | 21.11 | ng/ul | 96       |
| 66) Hexachlorobenzene          | 16.36 | 284  | 279997   | 20.74 | ng/ul | 94       |
| 67) Atrazine                   | 16.53 | 200  | 250912   | 20.65 | ng/ul | 98       |
| 68) Pentachlorophenol          | 16.70 | 266  | 169340   | 20.82 | ng/ul | 98       |
| 69) Phenanthrene               | 17.10 | 178  | 1319816  | 20.40 | ng/ul | 99       |
| 71) Anthracene                 | 17.19 | 178  | 1355569  | 20.51 | ng/ul | 100      |
| 72) Carbazole                  | 17.46 | 167  | 1236063  | 21.74 | ng/ul | 99       |
| 73) Di-n-butylphthalate        | 18.03 | 149  | 1418489  | 19.32 | ng/ul | 100      |
| 74) Fluoranthene               | 19.12 | 202  | 1567960  | 22.09 | ng/ul | 100      |
| 77) Pyrene                     | 19.48 | 202  | 1657552  | 20.00 | ng/ul | 99       |
| 78) Butylbenzylphthalate       | 20.39 | 149  | 669262   | 19.34 | ng/ul | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.17 | 252  | 567319   | 25.11 | ng/ul | 99       |
| 80) Benzo(a)anthracene         | 21.23 | 228  | 1649566  | 20.52 | ng/ul | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.17 | 149  | 955085   | 19.68 | ng/ul | 100      |
| 82) Chrysene                   | 21.29 | 228  | 1521013  | 20.50 | ng/ul | 99       |
| 84) Di-n-octyl phthalate       | 22.05 | 149  | 1707712  | 20.02 | ng/ul | 100      |
| 85) Benzo(b)fluoranthene       | 22.80 | 252  | 1711659  | 19.75 | ng/ul | 99       |
| 86) Benzo(k)fluoranthene       | 22.84 | 252  | 1678633  | 21.27 | ng/ul | 100      |
| 88) Benzo(a)pyrene             | 23.37 | 252  | 1679259  | 20.86 | ng/ul | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.68 | 276  | 1903243  | 21.19 | ng/ul | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.70 | 278  | 1590004  | 21.44 | ng/ul | 98       |
| 91) Benzo(g,h,i)perylene       | 26.36 | 276  | 1607785  | 20.76 | ng/ul | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

